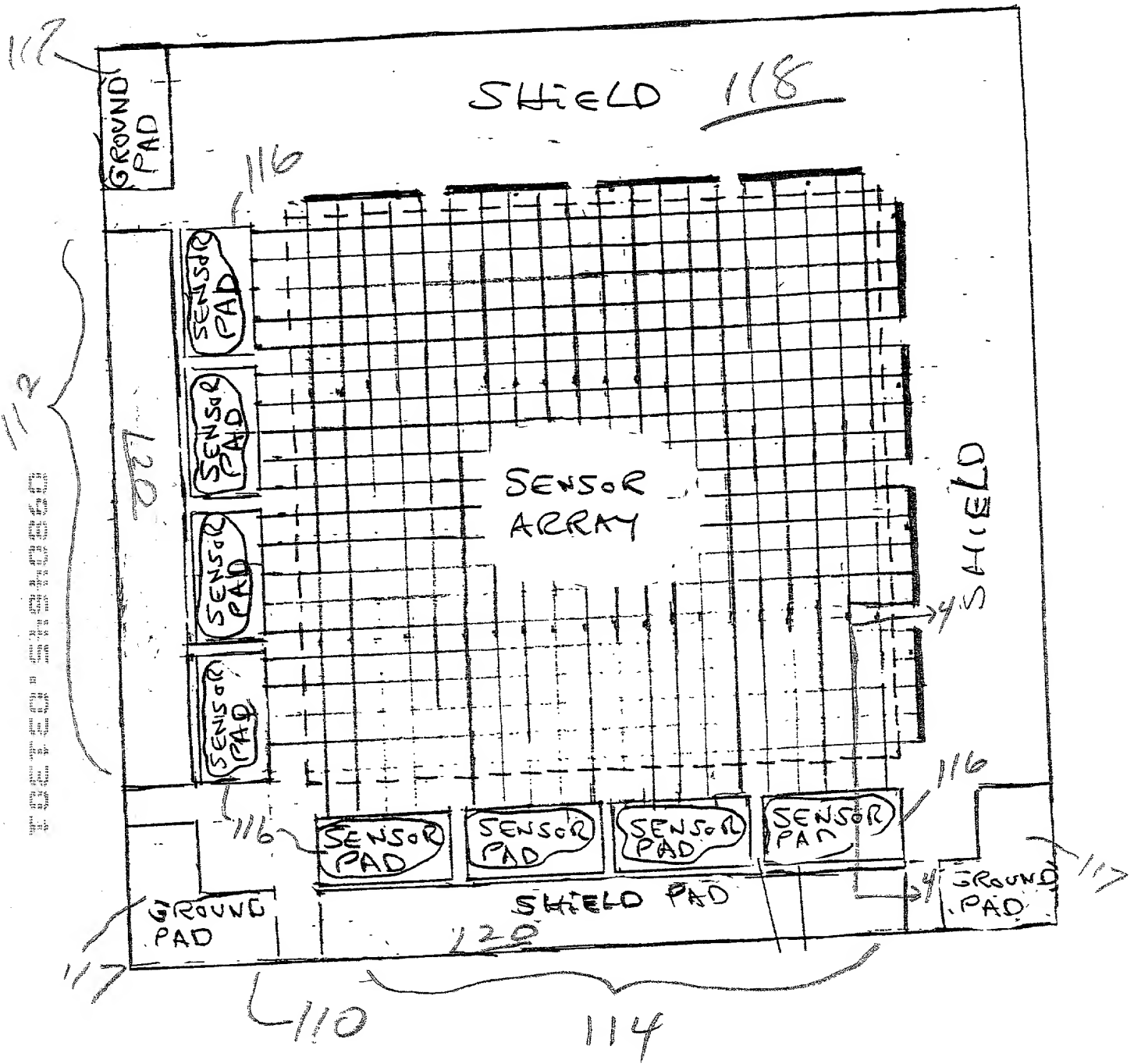


FIG 1

FIG. 1 is a perspective view of a system 100. The system 100 includes a rectangular box 101. The box 101 has a grid 110 on its base. A finger 201 is shown touching the grid 110. A control unit 1062 is connected to the box 101 via a cable. The control unit 1062 has a display and buttons. The entire system 100 is shown in a perspective view.



F14.2

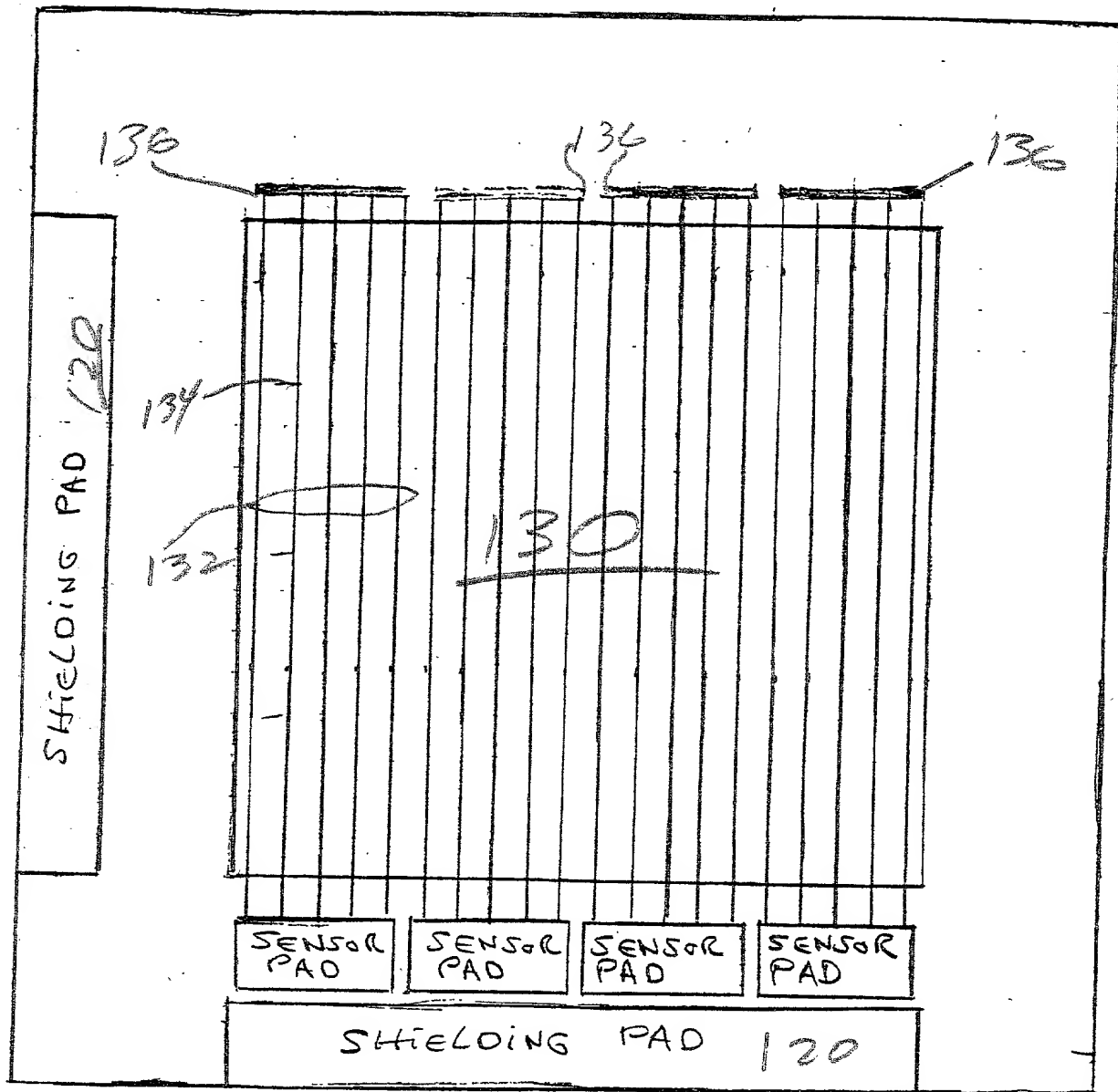


FIG. 3

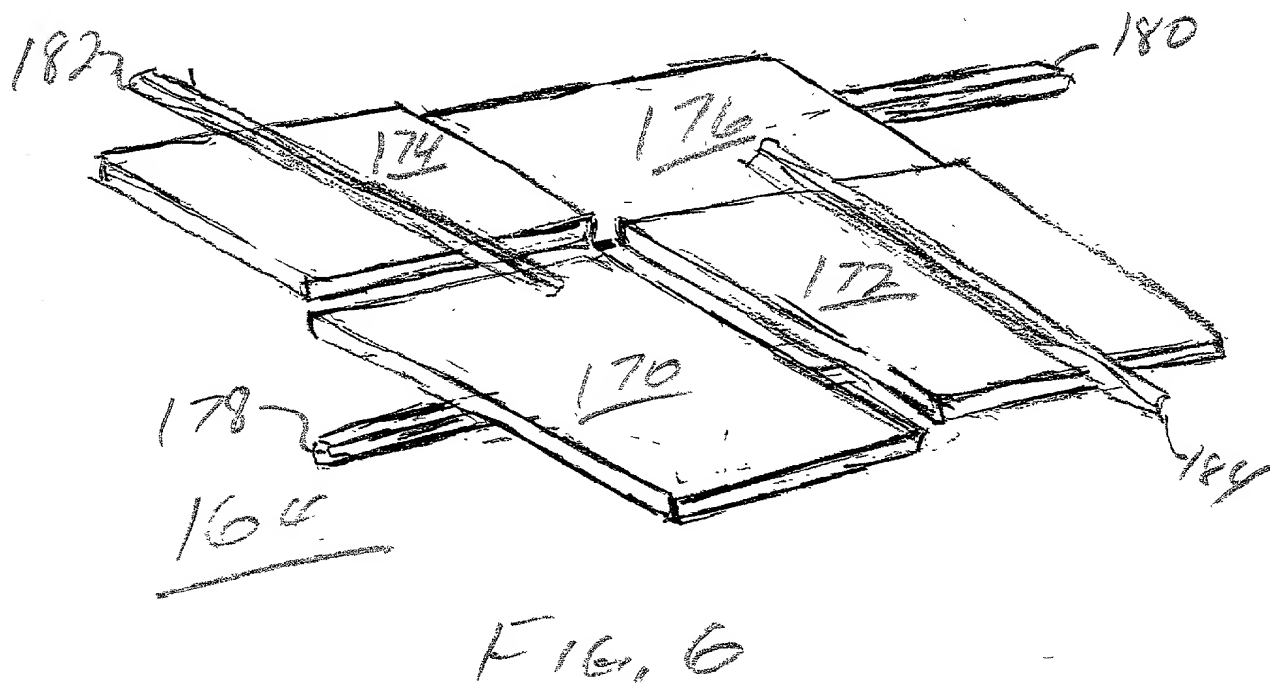
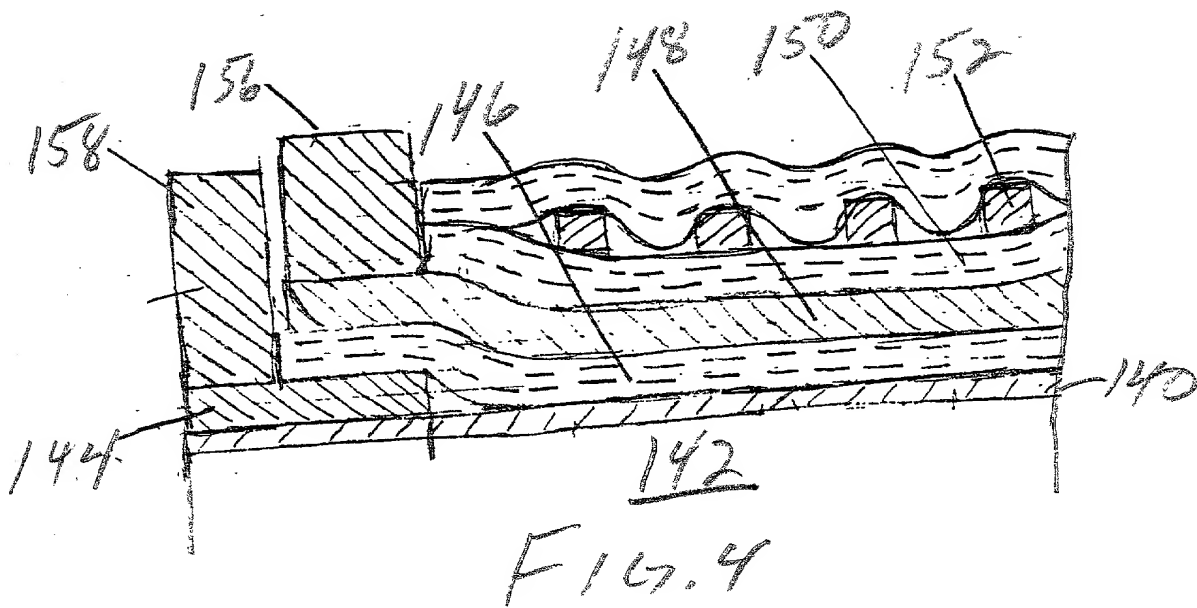


FIG. 5 is a block diagram of the system of the present invention. The system includes a sensor array 100, a multiplexer 102, an amplifier 104, an A/D converter 106, a processor 108, and a master multiplexer 110. The sensor array 100 is connected to the multiplexer 102, which is connected to the amplifier 104. The amplifier 104 is connected to the A/D converter 106, which is connected to the processor 108. The processor 108 is connected to the master multiplexer 110, which is connected to the sensor array 100. The system is powered by a power source 112.

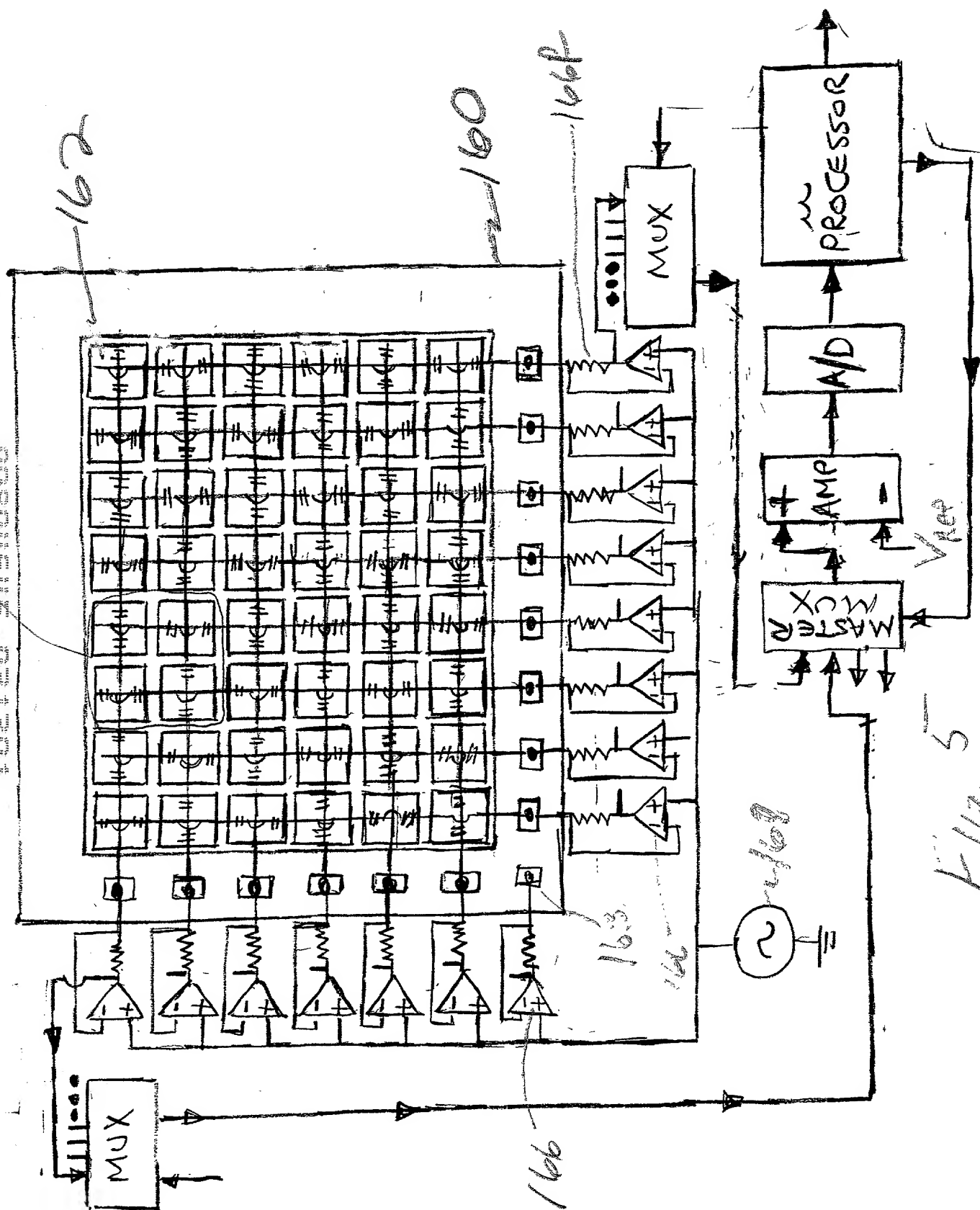


Fig. 5

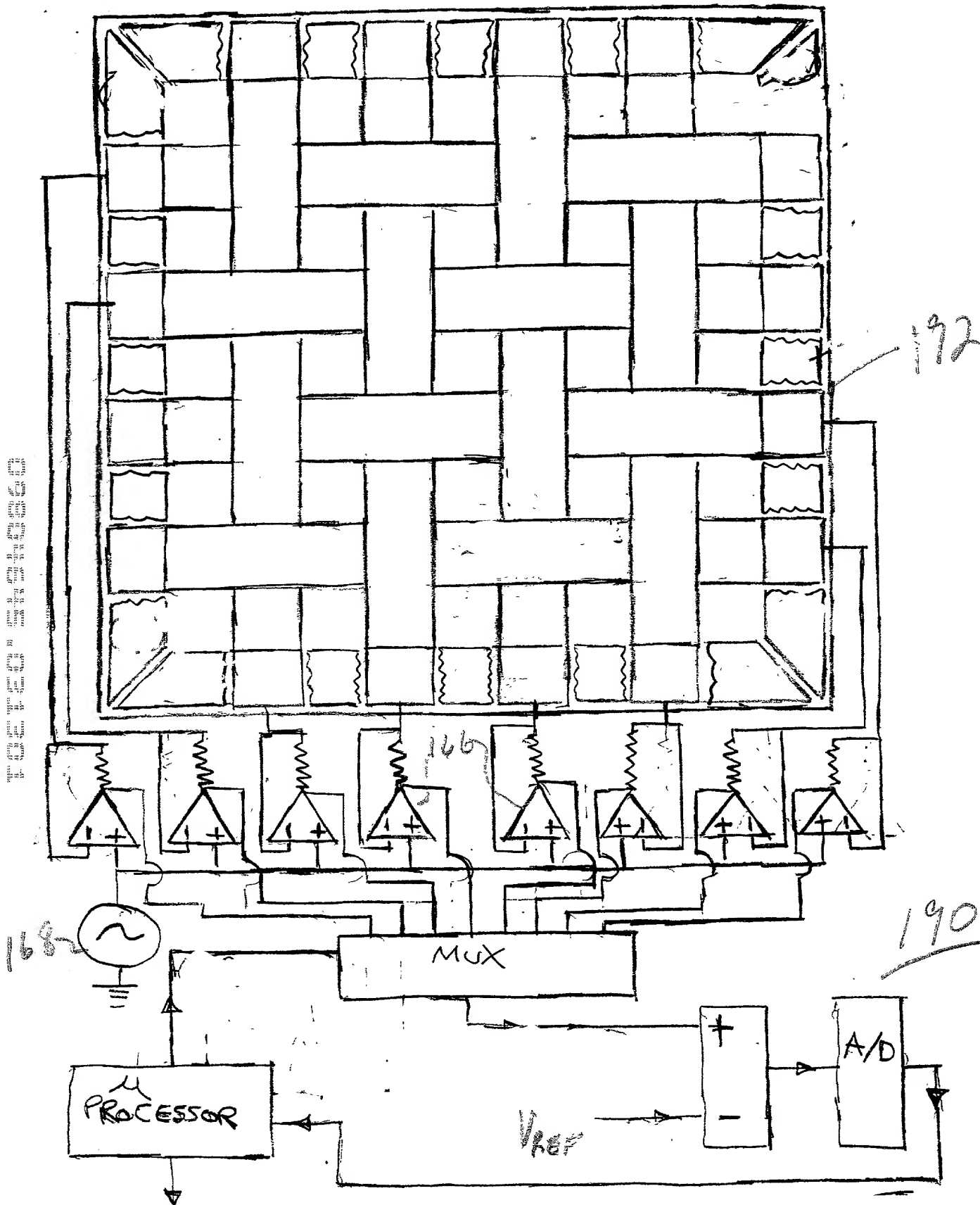


Fig. 7

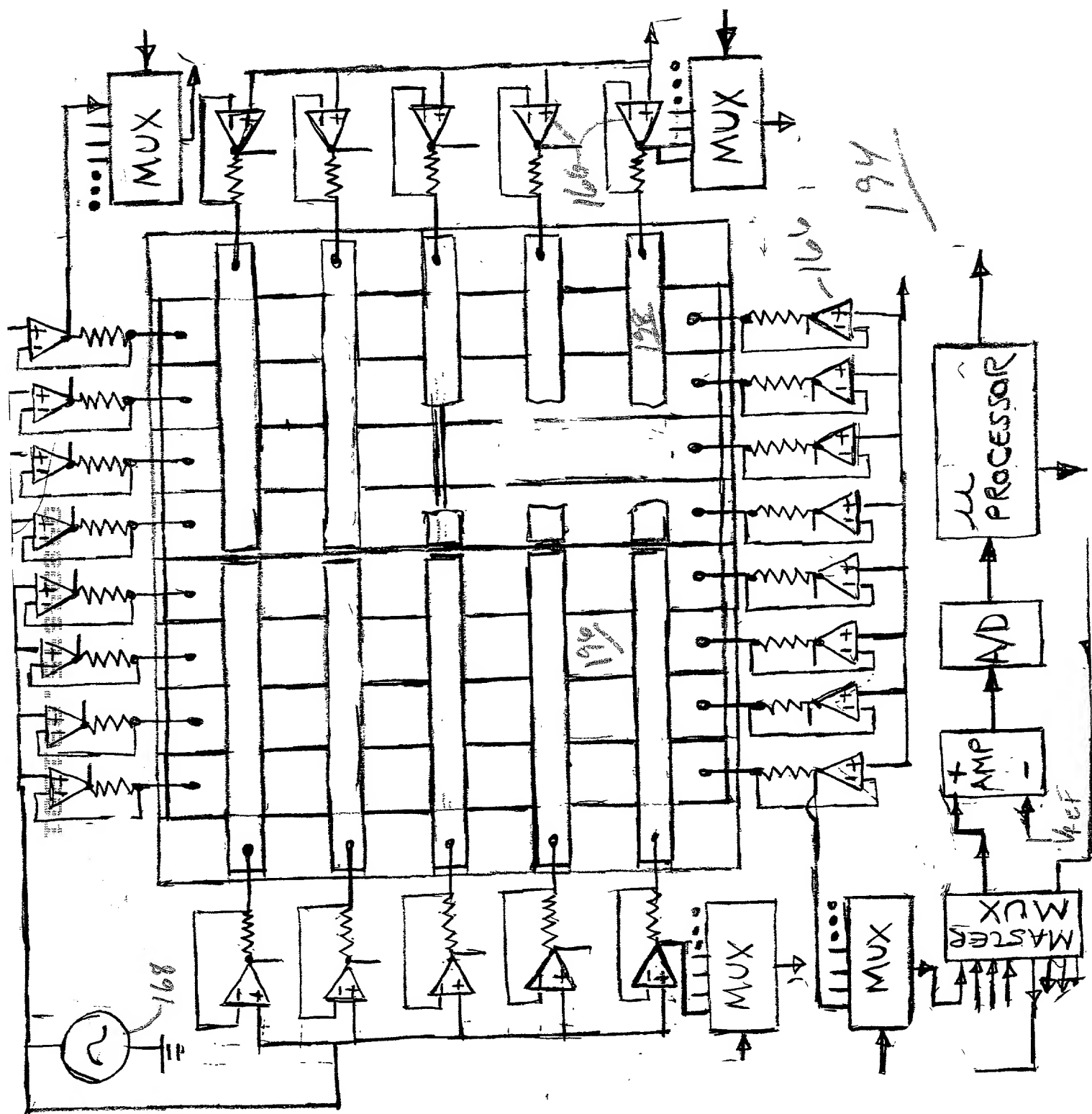


Fig. 8

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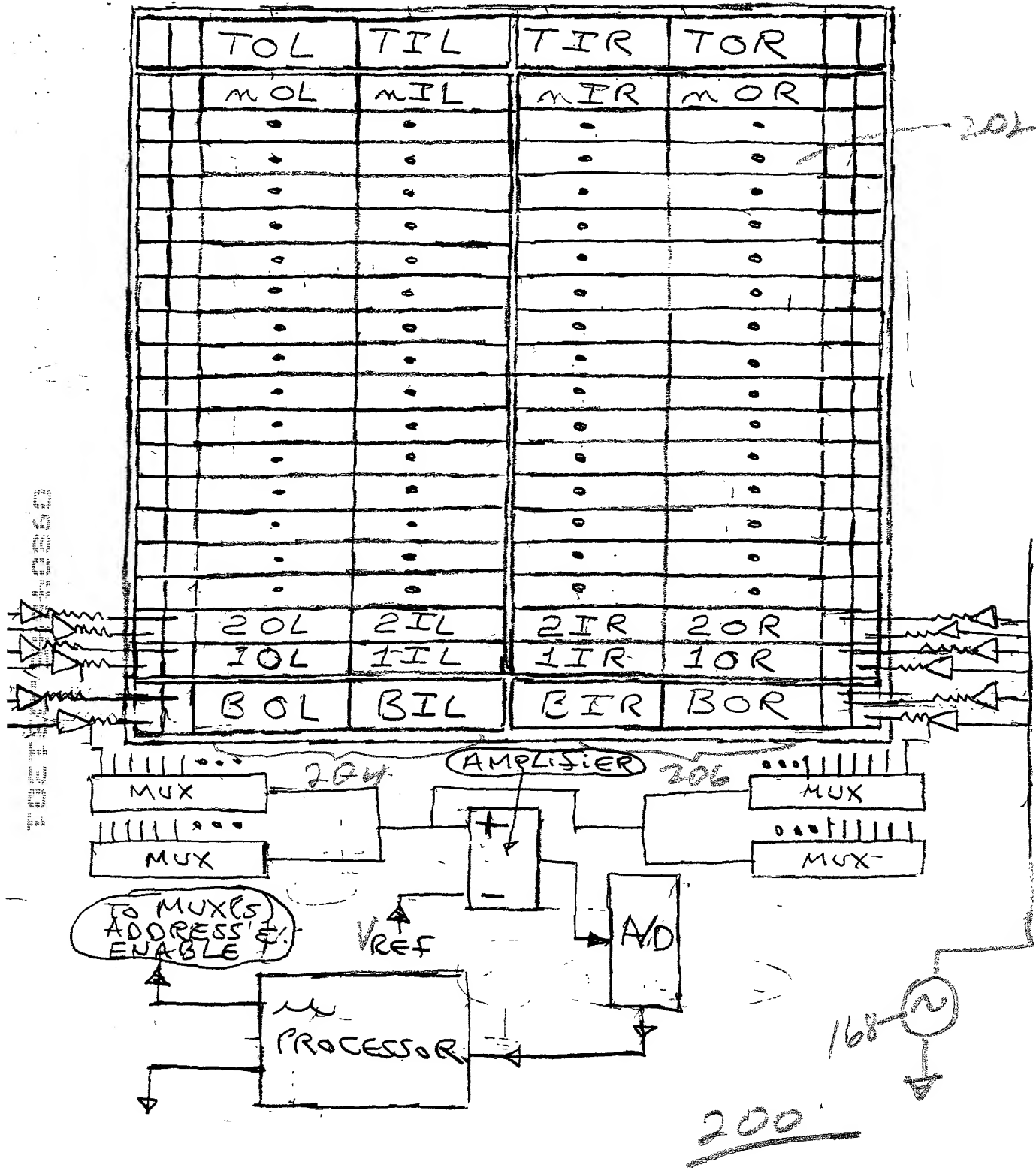


Fig. 9

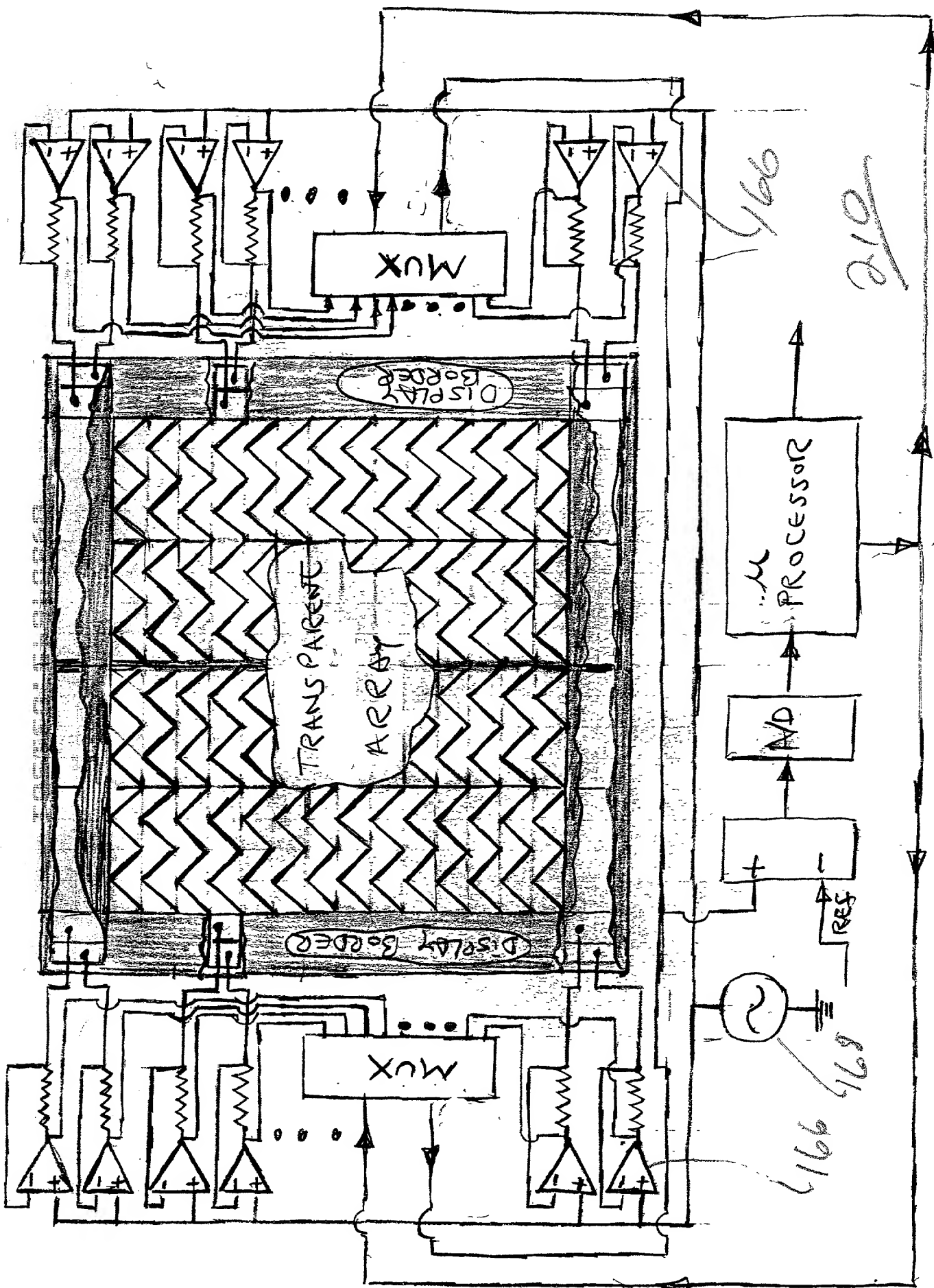


Fig. 10

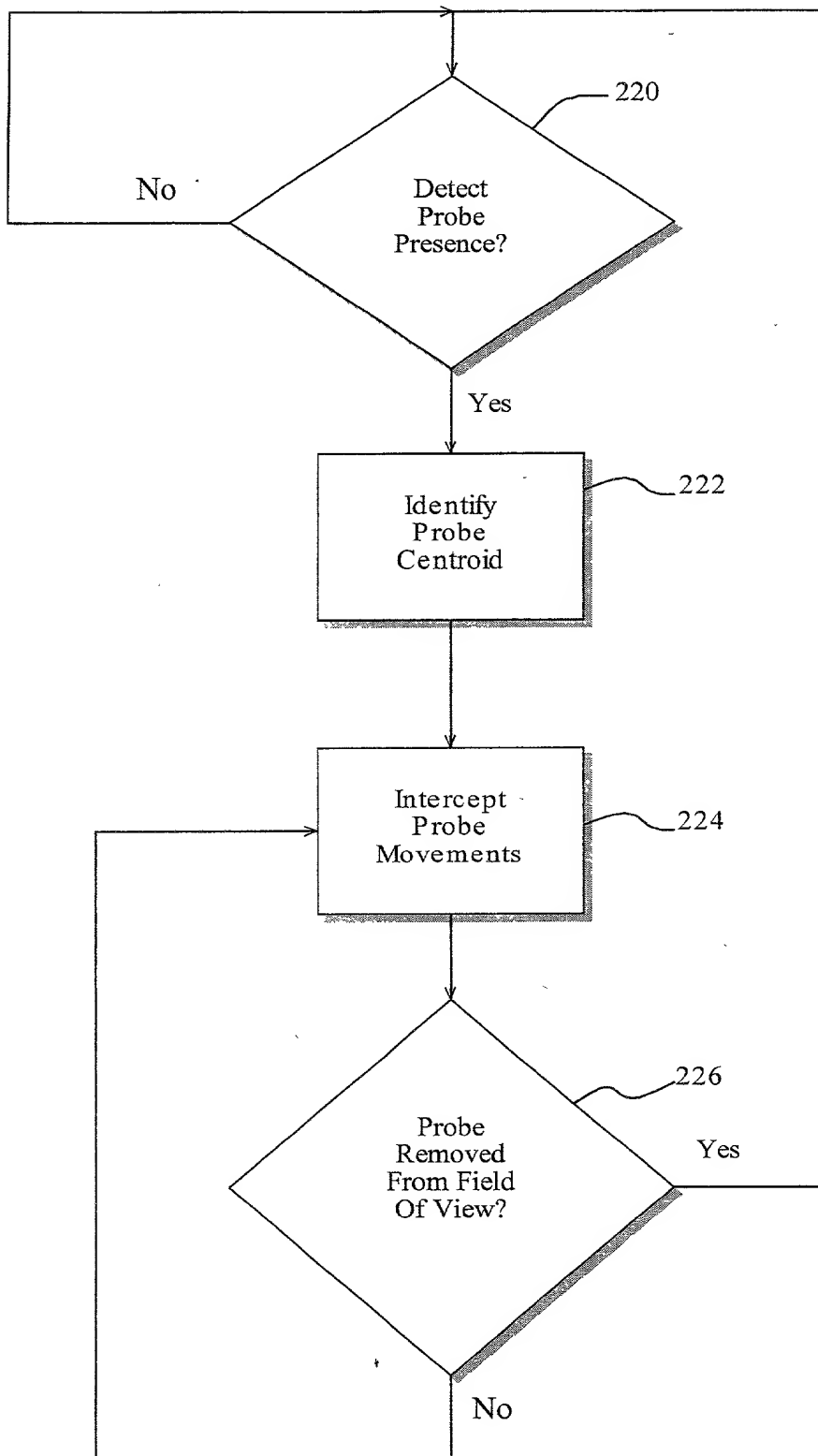


Fig. 11A

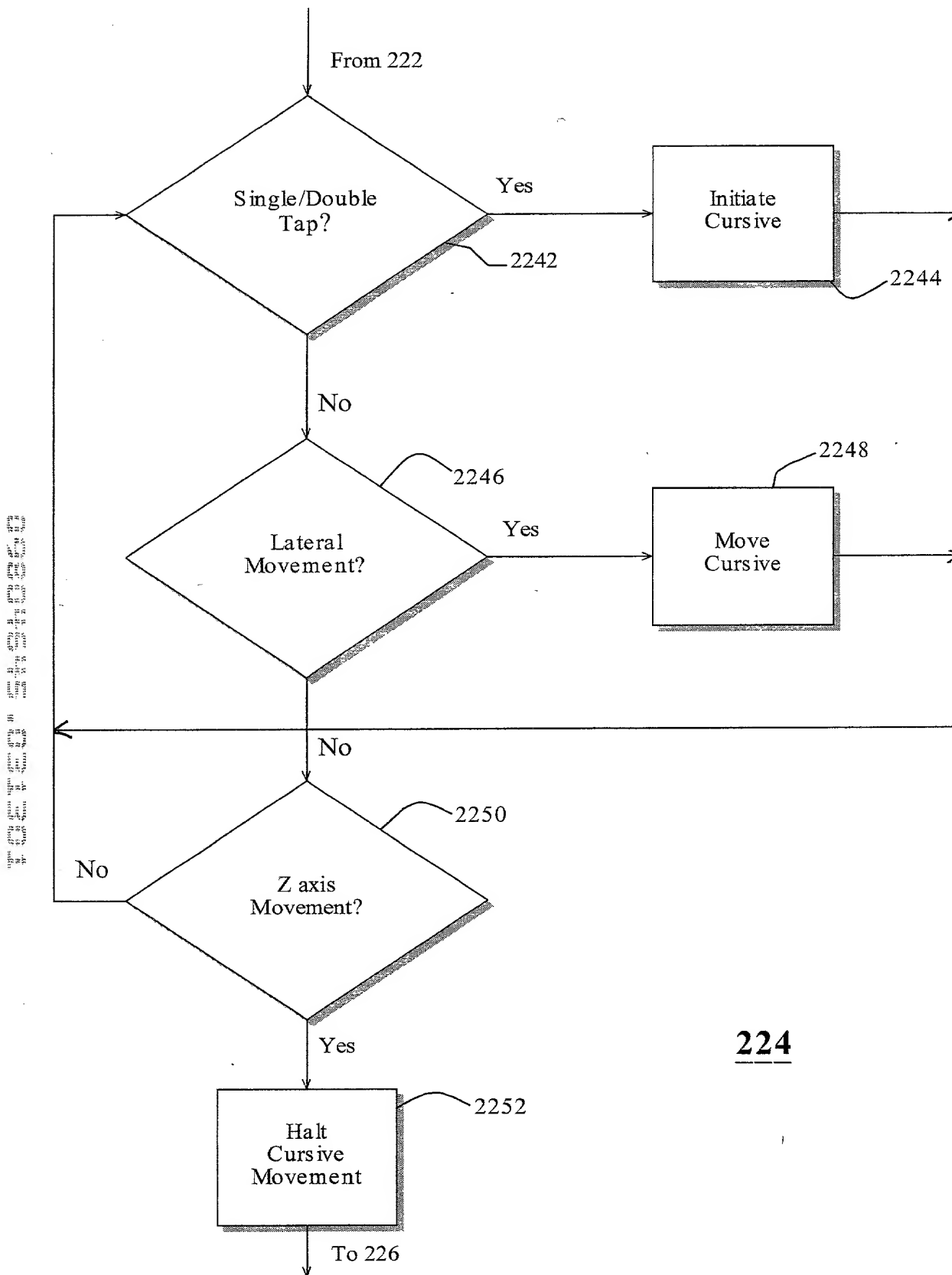


Fig. 11B

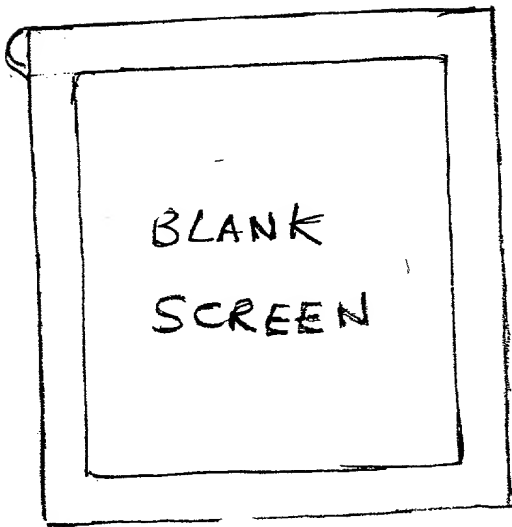


Fig. 10a.

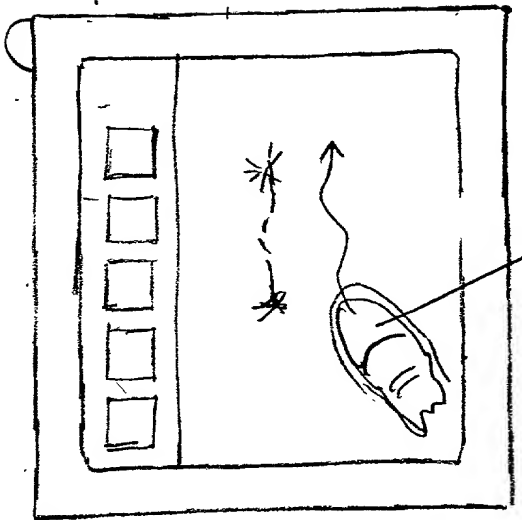


Fig. 12d.

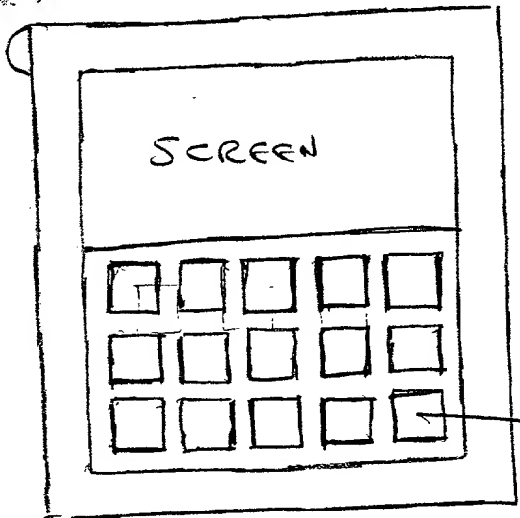


Fig. 12b.

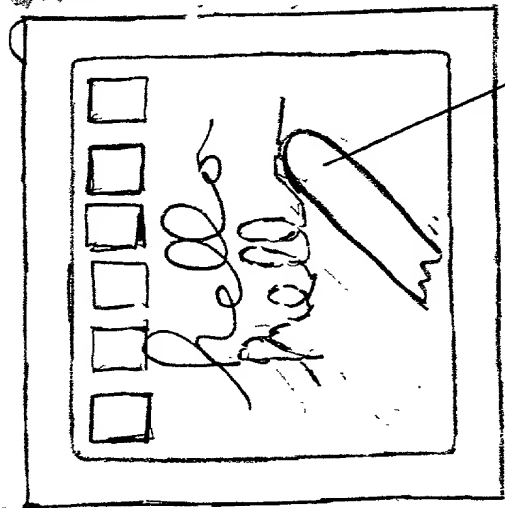


Fig. 12e.

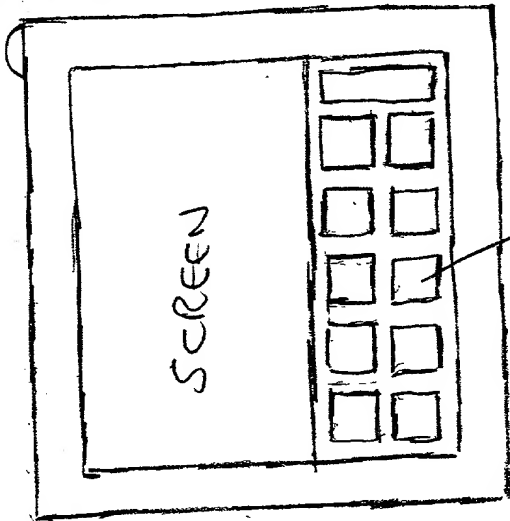


Fig. 12c.

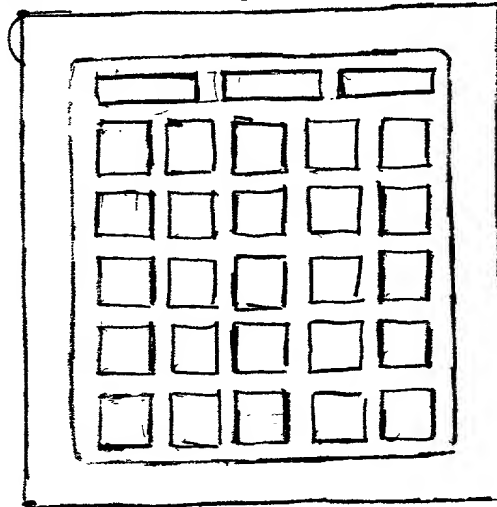


Fig. 12f.